Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. **(currently amended):** A method for defining gradation voltages of a liquid crystal display (LCD), comprising the steps of:

(a) applying a working voltage and a black voltage resulting in a brightness curve varying with time during a vertical scanning period sequentially to a plurality of pixels on the liquid crystal display within the vertical scanning period ~~applying a working voltage and a black voltage sequentially to a plurality of pixels on the liquid crystal display within a vertical scanning period~~;

(b) integrating the brightness curve with time during a duration of the brightness curve to obtain a product, and deriving an effective brightness from a quotient by dividing the product by the duration of the vertical scanning period ~~integrating a brightness curve resulting from the working voltage with time during the duration of the working voltage to obtain a product, and deriving an effective brightness from the quotient by dividing the product by the duration of the vertical scanning period~~;

(c) transferring the effective brightness into an effective light transmittance;

(d) iterating the aforesaid steps (a)-(c) to obtain a light transmittance vs. voltage curve; and

(e) defining a plurality of gray levels and gradation voltages corresponding to the plurality of gray levels according to the light transmittance vs. voltage curve.

2. **(original):** The method for defining gradation voltages of a liquid crystal display of Claim 1, wherein the light transmittance vs. voltage curve

expresses a dynamic relation between the light transmittance and the gradation voltages.

3. **(original):** The method for defining gradation voltages of a liquid crystal display of Claim 1, further comprising the step of:

dividing the effective brightness by the brightness of a backlight source in the liquid crystal display to obtain the effective light transmittance.

4. **(original):** The method for defining gradation voltages of a liquid crystal display of Claim 1, wherein the liquid crystal display simultaneously employs a black-data-insertion driving method.

5. **(original):** The method for defining gradation voltages of a liquid crystal display of Claim 1, wherein each of the gradation voltages given by step (e) is higher than each of the gradation voltages determined by a steady light transmittance vs. voltage curve for the same gray level so as to accelerate the response speed of the liquid crystal display.

6. **(currently amended):** A method for overdriving a liquid crystal display, employing gradation voltages defined by a dynamic light transmittance vs. voltage curve, comprising the steps of:

(a) applying a working voltage and a black voltage resulting in a brightness curve varying with time during a vertical scanning period sequentially to a plurality of pixels on the liquid crystal display within the vertical scanning period ~~applying a working voltage and a black voltage sequentially to a plurality of pixels on the liquid crystal display within a vertical scanning period~~;

(b) integrating the brightness curve with time during a duration of the brightness curve to obtain a product, and deriving an effective brightness from a quotient by dividing the product by the duration of the vertical scanning period ~~integrating a brightness curve resulting from the working voltage with time during the duration of the working voltage to obtain a product, and deriving an effective brightness from the quotient by dividing the product by the duration of the vertical scanning period~~;

(c) transferring the effective brightness into an effective light transmittance;

(d) iterating the aforesaid steps (a)-(c) to obtain a light transmittance vs. voltage curve; and

(e) defining a plurality of gray levels and gradation voltages corresponding to the plurality of gray levels according to the light transmittance vs. voltage curve;

wherein each of the gradation voltages is higher than each ~~of the~~ gradation voltages determined by a steady light transmittance vs. voltage curve for the same gray level so as to accelerate the response speed of the liquid crystal display.

7. **(original):** The method for overdriving a liquid crystal display of Claim 6, wherein the liquid crystal display simultaneously employs a black-data-insertion driving method.

8. **(original):** The method for overdriving a liquid crystal display of Claim 6, further comprising the step of:

dividing the effective brightness by the brightness of a backlight source in the liquid crystal display to obtain the effective light transmittance.